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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new non-provisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.

AFD 602

First Inventor or Application Identifier

Keith W. Jones

Title

PROGRAMMABLE MULTI-CHANNEL AMPLITUDE AND PHASE SHIFTING CIRCUIT

Express Mail Label No.

EE380648320US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:MS Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

1. *Fee Transmittal Form (e.g., PTO/SB/17)
2. Applicant claims small entity status
(See 37 CFR 1.27)
3. Specification [Total Pages 14]
(Preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R&D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 4]
5. Oath or Declaration [Total Pages 2]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. Paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 1.373(b) Statement Power of Attorney
11. English Translation Document *(if applicable)*
12. Information Disclosure Statement (IDS) PTO/SB/08A Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) *(should be itemized)*
15. Certified Copy of Priority Document(s)
16. Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach for PTO/SB/35 or its equivalent.
17. Other: _____

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76

Continuation Divisional Continuation in Part (CIP) of prior application No: _____

Prior application information: Examiner _____ Group / Art Unit _____

For **CONTINUATION** or **DIVISIONAL APPS** only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5B, is considered to be a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

CORRESPONDENCE ADDRESS

| | | | | | | |
|---|------------------------------------|--|----------------|--|------------|----------------|
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label | | 26902 <i>(Insert Customer No. here)</i> | | or <input type="checkbox"/> Correspondence address below | | |
| Name | GINA S. TOLLEFSON | | | | | |
| Address | AFMCLO/JAZ | | | | | |
| | BLDG 11, ROOM 100 2240 B STREET | | | | | |
| City | WRIGHT-PATTERSON AFB | State | OH | Zip Code | 45433-7109 | |
| Country | U.S.A. | Telephone | (937) 255-2838 | | Fax | (937) 255-3733 |

| | | | |
|---------------------|--------------------------|-------------------------------------|--------------------------|
| Name (Print / Type) | GINA S. TOLLEFSON | Registration No. (Attorney / Agent) | 39,049 |
| Signature | <i>GINA S. Tollefson</i> | | Date <i>Jan. 6, 2004</i> |

231088 U.S. PTO
10/751491

010704

FEE TRANSMITTAL

for FY 2004

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 770.00)

METHOD OF PAYMENT

Check Credit Money Other None
 Deposit Account card Order

Deposit Account Number

AF 01-0465

Deposit Account Name

Department of the Air Force

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee | Small Entity Fee | Fee Description | Fee Paid |
|------------------|------------------|------------------------|----------|
| Code (\$) | Code (\$) | | |
| 1001 770 | 2001 385 | Utility Filing Fee | 770 |
| 1002 340 | 2002 170 | Design Filing Fee | |
| 1003 530 | 2003 265 | Plant Filing Fee | |
| 1004 770 | 2004 385 | Reissue Filing Fee | |
| 1005 160 | 2005 80 | Provisional Filing Fee | |

SUBTOTAL (1) \$ 770.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Extra Claims | Fee from below | Fee Paid |
|-------------------------------------|----------------|----------|
| Total Claims 16 - 20** = 0 x 18 = 0 | | |
| Indep. Claims 2 - 3** = 0 x 86 = 0 | | |
| Multiple Dependent | | |

| Large Entity Fee | Small Entity Fee | Fee Description |
|------------------|------------------|---|
| Code (\$) | Code (\$) | |
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 86 | 2201 43 | Independent claims in excess of 3 |
| 1203 290 | 2203 145 | Multiple dependent claim, if not paid |
| 1204 86 | 2204 43 | **Reissue independent claims over original patent |
| 1205 18 | 2205 9 | **Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) \$ 0

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY

Complete if Known

Application Number

Filing Date

First Named Inventor

Examiner Name (not assigned)

Group Art Unit

Attorney Docket Number AFD 602

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Entity Code | Entity Fee (\$) | Small Entity Code | Entity Fee (\$) | Fee Description | Fee Paid |
|-------------------|-----------------|-------------------|-----------------|--|----------|
| 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 | 130 | 1053 | 130 | Non-English specification | |
| 1812 | 2,520 | 1812 | 2,520 | For filing a request for <i>ex parte</i> reexamination | |
| 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner Action | |
| 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1252 | 420 | 2252 | 210 | Extension for reply within second month | |
| 1253 | 950 | 2253 | 475 | Extension for reply within third month | |
| 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month | |
| 1255 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | |
| 1401 | 330 | 2401 | 165 | Notice of Appeal | |
| 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | |
| 1403 | 290 | 2403 | 145 | Request for oral hearing | |
| 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | |
| 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | |
| 1502 | 480 | 2502 | 240 | Design issue fee | |
| 1503 | 640 | 2503 | 320 | Plant issue fee | |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 | 770 | 2810 | 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | |
| 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) \$ 0

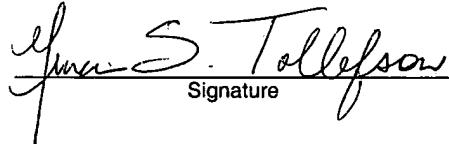
| Complete (if applicable) | | | |
|--------------------------|--------------------------|-------------------|--------------|
| Typed or Printed Name | GINA S. TOLLEFSON | Registration. No. | 39,049 |
| Signature | <i>Gina S. Tollefson</i> | Date | Jan. 6, 2004 |
| Typed or Printed Name | THOMAS L. KUNDERT | Registration. No. | 27,247 |
| Signature | <i>Thomas L. Kundert</i> | Date | Jan 6, 2004 |

**REQUEST AND CERTIFICATION
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

| | |
|----------------------|--|
| First Named Inventor | Keith Jones |
| Title | PROGRAMMABLE MULTI-CHANNEL AMPLITUDE AND PHASE SHIFTING CIRCUIT |
| Atty Docket Number | AFD 602 |

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 1.22(b).

Jan. 6, 2004
Date


Signature

GINA S. TOLLEFSON

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and be submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**